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NOTICE OF ALLOWANCE AND FEE(S) DUE

23483 7590 10/21/2008

WILMERHALE/BOSTON 60 STATE STREET BOSTON, MA 02109

EXAMINER ANGEBRANNIST, MARTIN J

PAPER NUMBER ARTHNIT

1705 DATE MAILED: 10/21/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/077.601 02/15/2002 Pengfei Wu 1823430.00121US1 1545

TITLE OF INVENTION: OPTICAL STORAGE SYSTEM

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES | \$755 | \$300 | \$0 | \$1055 | 01/21/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| appropriate. All further indicated unless correcte maintenance fee notifical | correspondence includir ed below or directed oth | or transmitting the 1880 ig the Patent, advance of nerwise in Block 1, by (| rders and notification of r a) specifying a new corres | naintenance fees will pondence address; a | I be mailed to the current nd/or (b) indicating a sep | correspondence address as arate "FEE ADDRESS" for |
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| CURRENT CORRESPOND | ENCE ADDRESS (Note: Use Bi | ock 1 for any change of address) | Note Feel paps have | e: A certificate of ma (s) Transmittal. This ders. Each additional p e its own certificate of | ailing can only be used for certificate cannot be used paper, such as an assignmant f mailing or transmission. | or domestic mailings of the for any other accompanying ent or formal drawing, must |
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| | | | | | | (Depositor's name) |
| | | | | | | (Signature) |
| | | | | | | (Date) |
| APPLICATION NO. | APPLICATION NO. FILING DATE | | FIRST NAMED INVENTOR | TOR ATTORNEY DOCKET NO. CONFIRMAT | | CONFIRMATION NO. |
| 10/077,601 TITLE OF INVENTION | 02/15/2002 OPTICAL STORAGE | SYSTEM | Pengfei Wu | | 1823430.00121US1 | 1545 |
| APPLN, TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE I | TEE TOTAL FEE(S) DUE | DATE DUE |
| nonprovisional | YES | \$755 | \$300 | \$0 | \$1055 | 01/21/2009 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS |] | | |
| ANGEBRANNI | DT, MARTIN J | 1795 | 430-001000 | • | | |
| "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.II. Comp | nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON | 2. For printing on the p (f) the answe of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or tyy data will appear on the p 17 a substitute for filing an T S at S of the state of the state (B) RESIDENCE: (CITY | 3 registered patent a vely, e firm (having as a m ugent) and the names meys or agents. If no printed. be) atent. If an assignee assignment. | nember a 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | locument has been filed for |
| Please check the appropr | iate assignee category or | categories (will not be p | rinted on the patent): | Individual 🚨 Corp | oration or other private gr | oup entity Government |
| 4a. The following fee(s): Issue Fee Publication Fee (N | o small entity discount p | | b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo | d. Form PTO-2038 is | s attached. | shown above) eficiency, or credit any un extra copy of this form). |
| | s SMALL ENTITY state | is. See 37 CFR 1.27. | | | ENTITY status. See 37 C | |
| NOTE: The Issue Fee an interest as shown by the | d Publication Fee (if req records of the United Sta | uired) will not be accepte tes Patent and Trademark | ed from anyone other than t k Office. | he applicant; a registe | ered attorney or agent; or t | he assignee or other party in |
| Authorized Signature | | | | Date | | |
| Typed or printed name | | | | Registration No. | | |
| This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450. | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR | on is required to obtain or r 1.14. This collection is est depending upon the indiv the Chief Information Office COMPLETED FORMS TO | retain a benefit by the imated to take 12 min idual case. Any comer, U.S. Patent and Tr D THIS ADDRESS. | public which is to file (an nutes to complete, includi ments on the amount of ti ademark Office, U.S. Dep SEND TO: Commissioner | d by the USPTO to process) ng gathering, preparing, and me you require to complete sartment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| APPLICATION NO. | FILE | FILING DATE FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------------------|------------|----------------------------------|------------|-----------------------|------------------|
| 10/077,601 | 02/15/2002 | | Pengfei Wu | 1823430.00121US1 1545 | |
| 23483 | 7590 | 7590 10/21/2008 | | EXAMINER | |
| WILMERHAL | E/BOSTO | ANGEBRANNDT, MARTIN J | | | |
| 60 STATE STREET BOSTON, MA 02109 | | | | ART UNIT | PAPER NUMBER |
| | | | | 1795 | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 273 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 273 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/077.601 WU ET AL. Notice of Allowability Examiner Art Unit Martin J. Angebranndt 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 9/26/08 & 10/06/08. The allowed claim(s) is/are 49-65. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some* c} \subseteq \subseteq \text{None of the:} \) 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). ☐ Examiner's Amendment/Comment Paper No./Mail Date 10/06/08 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /Martin J Angebranndt/

Primary Examiner, Art Unit 1795

Application/Control Number: 10/077,601

Art Unit: 1795

1. The following is an examiner's statement of reasons for allowance: The declaration of Dr. Rao et al. regarding the Wu references establishes that the compositions are essentially the same and that no appreciable difference in the Tg would be expected. This is supported by the teachings of the Choi reference (filed 10/06/2008) in the right hand column of page 1015. The exposure conditions ion the inventive process are the cause of the difference in the permanence of the grating, not merely the Tg and there is no motivation to change the exposure levels in Wu et al.. There are significant differences in the azo doped media and azo pendant media regarding the formation of permanent gratings. The formation of the permanent gratings in the inventive process is therefore novel and unobvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Martin J. Angebranndt whose telephone number is 571-272-1378.
 The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1795

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Martin J Angebranndt/ Primary Examiner, Art Unit 1795

> Martin J Angebranndt Primary Examiner Art Unit 1795

10/08/2008